

GENERAL SPECIFICATION – LATITUDE SCIENCE TABLE

PART 1 GENERAL

1.1 ADMINISTRATIVE REQUIREMENTS

- A. **Pre-**Installation Conference:
1. Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder] installer, and related trades.
 2. Review: Project conditions, manufacturer requirements, delivery, and storage, staging and sequencing, and protection of completed work.

1.2 SUBMITTALS

- A. Action Submittals:
1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
 2. Product Data: Manufacturer's descriptive data and product attributes.
 3. Samples:
 - a. [Selection samples.] [Verification samples.]
- B. Closeout Submittals:
1. Operation and Maintenance Data.
- C. **Quality Control** Submittals:
1. Manufacturer qualification statement.
 2. Comprehensive quality assurance statement.

1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
1. Manufacturer has a minimum of 5 years of experience of manufacturing science tables for similar projects and can show evidence of long-lasting financial stability.
 2. Certified for chain of custody by third party group approved by Forest Stewardship Council (FSC).
 3. Licensed under Architectural Woodwork Institute (AWI) Quality Certification Program (QCP).
- B. **Installer** Qualifications: Minimum [2] [] years' experience in work of this Section.
- C. **Mockups**:
1. Full-size science table.
 2. Approved mockups [may] [may not] remain as part of the Work.

1.4 WARRANTIES

- A. **Manufacturer's [1 year] [3 year] [5 year] [limited lifetime] warranty against** defects in materials and workmanship, including non-casework accessories.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by Case Systems, Inc., www.casesystems.com.
- B. **Substitutions**: [Refer to **Division 01.**] [Not permitted.]

2.2 MATERIALS

- A. Base and Top Deck Structure:
1. Sheet Steel: High quality cold rolled mill steel meeting the requirements of ASTM A1008CS Type B in 18 ga and 14 ga U.S. standard. High quality hot rolled pickled and oiled steel meeting the requirements of ASTM A1011CS Type B in 11 ga and 7 ga U.S. standard.
 2. Tube steel: High quality square tube meeting the requirements of ASTM A500 for 1.5" square with various thicknesses.
- B. Base Enclosure Panels:
1. Plastic Laminate Panels:
 - a. Core:
 - [Particleboard, ANSI A208.1, Grade M-2 or higher.]
*** OR ***
 - [Moisture resistant particleboard, ANSI A208.1, interior grade moisture resistant, MR/FSC.]
*** OR ***
 - [Recycled content, FSC Certified particleboard, ANSI A208.1, ULEF/FSC, M-2, containing recycled content, no added urea formaldehyde.]
*** OR ***
 - [Recycled content, FSC Certified plywood, ULEF/FSC, no added urea formaldehyde.]
*** OR ***
 - [FSC Certified plywood.]
 - b. Finish:
 - High Pressure Laminate grade VGS [Formica in a '58' finish] [Nevamar in a T finish] [Pionite in an'SD' finish] [Wilsonart in a '60' matte finish]
 2. Painted Steel panels: 18ga cold rolled steel with an electrostatically applied powder coating finish. Color is [gray] [light neutral] [black] [white].
- C. Edge Banding:
1. PVC, applied utilizing hot melt adhesive and radiused by automatic trimmer.
 2. Adhesive: PVA type, mechanically applied, ULEF, free from VOC's.

2.3 FABRICATION

A. General Base and Top Deck Construction:

1. Main base structure: Main base structure consists of formed sheet steel with mig-welded and bolted construction making a rigid frame structure to support the adjustable and fixed portions of the final unit. The base structure is enclosed with removable panels to allow access to plumbing and electrical services.
2. Sink main structure consists of formed sheet steel with mig-welded and bolted construction making a rigid frame structure to support the sink and sink worksurface. Knee space clearances are designed to be wheelchair accessible for the sink. The front and vertical panels of the sink section are removable for access to plumbing and electrical connections.
3. Top deck structure is constructed of 1.5"-11ga square tubing and sheet steel mig-welded to form a rigid structure.
4. Table Lift System
 - a. The adjustable table height range is a nominal 31" to 37" including a 1" countertop thickness
 - b. Linear actuator – Two Units mounted inside of the table base for the adjustable tabletop.
 - i. Model #LA31 series linear actuator.
 - ii. 24-V DC permanent magnet motor.
 - iii. Thrust up to 6000 N in push and up to 4000 N in pull

- iv. Synchronization feature on each actuator for accurate control of height range and balance between both actuators.
 - v. Travel length of 150mm (5.91").
 - vi. Built-in brake to hold position.
 - vii. Noise level of 48 dB (A); measuring method DSIEN ISO 3746, actuator not loaded.
 - viii. Duty cycle Max 10% or 2 minutes continuous use followed by 18 minutes not in use.
 - ix. Built in limit switches (non-adjustable).
 - x. Color is black.
- c. Desk Panel (up/down switch)
 - i. Model number #DP1E.
 - ii. Two button plastic housed switch with imprinted arrows indicating the up and down directions.
 - iii. Color is black.
 - d. Power Transformer/ control box
 - i. Model #CBD6S.
 - ii. Input voltage of 120v and output voltage of 24v.
 - iii. Maximum amperage draw is 2.7amps.
 - iv. Color is black.
2. Load rating:
- a. Overall table load rating with an epoxy worksurface and sink is 300 lbs maximum of evenly distributed load.
3. Countertops:
- a. Epoxy Resin:
 - i. Top 1" thick with 1/32" chamfer on finished Epoxy edges and provided with 1/8" radius edge and all corners. Color is black.
 - Optional molded dished (marine edge) worksurface.
 - b. Phenolic Resin:
 - i. **[3/4"]** or **[1"]** thickness with 1/8" radius edge and all corners. Color is black.
 - ii. Shall be made of thermosetting resins, homogeneously reinforced with wood-based fibers, manufactured under high heat and high pressure.
 - iii. Non-porous, water resistant with anti-microbial properties without the use of coatings or additives.

2.4 ACCESSORIES

- A. Sink:
 - 1. Epoxy sink for ADA requirements, Durcon model A55 drop-in style, corner outlet, 25" w x 15" l x 4.8"d. Standard Durcon polypropylene sink outlet and sink strainer cap are included. Color is black.
- B. Water and Gas Fixtures:
 - 1. Laboratory grade service fixture by Watersaver, Vandal-resistant combination fixture, hot/cold and gas. Watersaver VR5800WSA for standard model & VR5800-110WSA for model with in-line vacuum breaker on water inlet.
 - a. Laboratory style ball valves for gas fixtures
- C. Electrical fixtures:
 - 1. Outlet fixtures and covers in Apron Assembly:
 - a. Electrical duplex outlets are a Leviton #G5262 series 15amp 125v rated, GFCI industrial grade receptacle.
 - b. USB outlets are a Leviton #USB4P series 4.2A-125v rated total output with (4) ports.
 - c. Covers are Leviton standard configurations to fit the application and quad box size.
 - 2. Power Outlet Strip mounting under Top Deck Structure

- a. Six outlet power strip, 15A rated, lighted on/off switch.
 - b. Power cord is 15' length with NEMA 5-15 plug.
- D. Apparatus Rods:
 - 1. Rods and fittings are manufactured from machined aluminum.
 - 2. Rod socket is a taper fit design.
 - 3. Rod diameter is $\frac{3}{4}$ " and available in various lengths.
- E. Wire grommets:
 - 1. 60mm diameter surface mount with snap on cover. Available in several colors.
- F. Plumbing P-trap ADA cover. Trubro soft mold vinyl P-trap cover with internal fasteners.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved Shop Drawings.

END OF SECTION